## Dr. Eva C. Herbst

## PEER-REVIEWED PUBLICATIONS \* DENOTES CO FIRST AUTHOR

- Lappen S, Siegert P, Raiss P, Denard PJ, Werner BC, Griffin J, Shah A, Poltaretskyi S, Metcalfe N, Herbst EC, Moroder P. Influence of humeral liner constraint in reverse total shoulder arthroplasty on simulated range of motion in patients with various posture types a modeling study. *The Hive Muskuloskeletal Journal*.
- Moroder P, Herbst EC, Pawelke J, Lappen S, Schulz E. Large variability in the degree of constraint of reverse total shoulder arthroplasty liners between different implant systems. Bone & Joint Open.
- Akguen D, Gebauer H, Paksoy A, Schafer F, **Herbst EC**, Karczewski D, Pastor MF, Moroder P. Differences in Osseous Shoulder Morphology, Scapulothoracic Orientation, and Muscle Volume in Patients With Constitutional Static Posterior Shoulder Instability (Type C1) Compared With Healthy Controls. *Am. J. Sports Medicine*.
- Webb NM, Fornai C, Krenn VA, Watson LM, Herbst EC, Haeusler M. Gradual exacerbation of obstetric constraints during hominoid evolution implied by re-evaluation of cephalopelvic fit in chimpanzees. Nature Ecology & Evolution.
- Merten LJF, Manafzadeh AR, Herbst EC, Amson E, Tambusso PS, Arnold P, Nyakatura JA. The functional significance of aberrant cervical counts in sloths: insights from automated exhaustive analysis of cervical range of motion. *Proc. R. Soc. B.*
- Herbst EC\*, Evans LA\*, Felder AA, Javaheri B and Pitsillides AA. 3D profiling of mouse epiphyses across ages reveals new potential imaging biomarkers of early spontaneous osteoarthritis. *J. Anat*
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- Herbst EC, Felder AA, Evans LAE, Ajami S, Javaheri B, Pitsillides AA. A new straightforward method for semi-automated segmentation of trabecular bone from cortical bone in diverse and challenging morphologies. *Royal Society Open Science* 8(8), figure featured on journal cover.
- 2020 Ortega-Jimenez VM, **Herbst EC**, Leung MS, and Dudley R. Natural barriers: waterfall transit by small flying animals. *Royal Society Open Science* 7201185

- Herbst EC, Doube M, Smithson TR, Clack J, and Hutchinson JR. Bony lesions in early tetrapods and the evolution of mineralized tissue repair. *Paleobiology* 45(4)
- Herbst EC and Hutchinson JR. New insights into the morphology of the Carboniferous tetrapod Crassigyrinus scoticus from CT. *Earth Environ. Sci. Trans. R. Soc. Edinb.* 109(1-2)